

## PATENT ABSTRACTS OF JAPAN

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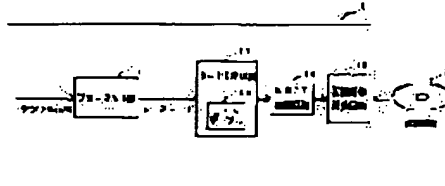
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(54) MODULATION METHOD, MODULATION DEVICE, DEMODULATION METHOD,  
DEMODULATION DEVICE AND RECORDING MEDIUM

(57)Abstract:

PROBLEM TO BE SOLVED: To improve an encoding rate by permitting a code table to store a code word corresponding to an input data word and state information showing an encoding table used for encoding the next input data word and selecting the plural encoding tables.

SOLUTION: An 8-15 modulator 13 converts the input data word of eight bits, which is inputted through a format part 12, into the code word of 15 bits by referring to a code table 120. An NRZI conversion circuit 14 receives a code word, generates an NRZI signal and records it in a recording medium 2 through a recording medium driving circuit 15. At the time of constituting the code table 120, the code word is allocated based on a limit that a minimum run length is 3T and a maximum run length is 11T with a channel bit as T. The table is divided into seven groups 7 based on a transition state and the group can be selected in accordance with a following input data word. Thus, the run length limit is satisfied even if the code word is directly connected.



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